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No. 50] NEW DELHI, SATURDAY, DECEMBER 16 1989 (AGRAHAYANA 25, 1911)

इस भाग में भिन्न पृष्ठ संस्था से जाती है जिसते किया अना संकलत के रूप में रखा जा सके Separate paging is given to this Part in order that it may be filed as a separate compilation?

माग् Ш—खण्ड 2

[PART III—SECTION 2]

पेटेंग्ट कार्यालय द्वारा जारी की गई पेटेंग्टों और डिजाइनों से सम्बन्धित अधिसूचनाएं और नोटिस [Notifications and Notices issued by the Patent Office relating to Patents and Designs]

THE PATENT OFFICE PATENTS AND DESIGNS

Calcutta, the 16th December 1989

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Telegraphic 'address 'PATENTOFIS".

Patent Office, (Head Office), "NIZAM PALACE", 2nd M.S.O. Building, 5th, 6th and 7th Floor, 234/4, Acharya Jagadish Bose Road, Calcutta-700 020

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Telegraphic address "PATENTS",

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पेटेंट कार्यालय

एकस्य तथा अभिकल्प

कलकत्ता, दिनांक 16 दिसम्बर 1989

पेटेट कार्यालय के कार्यालयों के पते एवं क्षेत्राधिकार

पेटाँट कार्यालय का प्रधान कार्यालय कलकत्ता में अवस्थित हैं तथा बम्बर्घ, दिल्ली एवं मदास में इसके शासा कार्यालय हैं, जिनके प्रावेशिक क्षेत्राधिकार जोन के आधार पर निम्न रूप में प्रदेशित हैं:---

पेट कार्यालय शासा, टोडी इस्टेट तीसरा तल, लोअर परोलं (पश्चिम), बम्बई-400 013

गुजरात, महाराष्ट्र तथा मध्य प्रदेश राज्य क्षेत्र एवं संघ शासिस् क्षेत्र गीआ, दमन तथा दिव एवं दादरा और नगर हवेलीं।

तार पता-- "पेटो फिसे"।

पंटेंट कार्यालय शाखा, एकक सं 401 से 405, तीसरा तल, नगरपालिका बाजार भवन, सरस्वती मार्ग, करोलबाग, नई दिल्ली-110 005.

हरियाणा, हिमाचल एदोश, जम्मू तथा कदमीर, पंजाब, राजस्थान तथा उत्तर प्रदोश राज्य क्षेत्रों एवं संघ शासित क्षेत्र चंडीगढ़ तथा विल्ली ।

तार पता--"'पेटैटो फिस"।।

पेटेंट कार्यालय झाखा, 61, वालाजाह रोड, मद्रास-600 002.

> आंध्र प्रदोश, कर्नाटक, कोरल, कमिलनाडु राज्य कोत्र एवं संघ शासित कोत्र पाण्डिचेरी, लक्षव्यीप, मिनिकाय तथा एमिनिदिबि दुवीप।

तार पता--"पेटोफिस"।

पेटेंट कार्यालय (प्रधान कार्यालय), निजाम पैलेस, द्वतीय इहृतलीय कार्यालय भवन, 5, 6 तथा 7वां तल, 234/4, आभार्य जगदीश बोस रोड, कलकत्ता-700 020

भारत का अवर्शेष क्षेत्र।

तार पता--"पटेट्स"।

पेटेंट अधिनियम, 1970 या पेटेंट नियम, 1972 में अपे क्षित सभी आवेदन पत्र, सूचनाएं, विवरण या अन्य प्रलेख पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में ही प्राप्त किए आयोंगे।

शुल्क :---शुल्कों की अदायगी या तो नकत की आयोगी अभवा उपयुक्त कार्यालय में नियंत्रक को भुगतान योग्य धनादेश अधना डाक आदेश या जहां उपयुक्त कार्यालय अवस्थित हैं; उस स्थान के अनुमूचित बैंक से नियंत्रक को भुगतान योग्य बैंक कृप्ट अथवा चेक ब्हारा की जा सकती हैं।

CORRIGENDUM

In the Gazette of India, Part III. Section 2, dated 14th January 1989 under the heading Complete Specification accepted, in Complete Specification No. 164083, read the name of the applicants as SCHADE FORDERTECKNIK GMBH & CO., instead of GUSTAV SCHADE MASCHINENFABRIK GMBH & CO.

CHANGE OF NAME OF THE APPLICANTS FOR PATENTS

Application for Patent No. 398/Cal/85 filed on 24th May 1985 notified in the Gazette of India, Part III, Section 2 dated 14th January 1989 will proceed in the name of SCHADE FORDERTECHNIK GMBH & CO. by order dated 21st December 1987.

APPLICATION FOR PATENTS FILED AT THE HEAD OFFICE 234/4. ACHARYA JAGADISH BOSE ROAD, CALCUTTA-20

The dates shown in the crescent brackets are the dates claimed Under Section 135, of the Patents Act, 1970.

The 8th November, 1989

- 935/Cal/89. India Foil Limited. Vacuum type packagea for vacuum packaging of food, tea and like articles.
- 936/Cal/89. Rea Licensing Corporation. Method of electrophotographically manufacturing a luminescent screen assembly for a cathode-ray tube.
- 937/Cal/89, James Bain Noble. Directional drilling apparatus and method.
- 938/Cal/89. Ici India Limited. A process for the catalytic hydrogenation of para hydroxy mandelic acid or its sodium sult to para hydroxy phenylacetic acid.

The 9th November, 1989

939/Cal/89. E.I. Du Pont De - Nemours and Company. Needling process for spunbonded composites.

- 940/Cal/89. Hollandse Signallappuraten B.V. Radar apparatus and side-lobe suppression unit suitable for application in such a radar system.
- 941/Cal/ 89. Copyguard Enterprises S.A. A method and an apparatus for preventing unauthorised recording on tapes of video programmes.
- APPLICATION FOR PATENTS FILED AT THE PATENT OFFICE BRANCH, MUNICIPAL MARKET BUILDING, 3RD FLOOR, KAROL BAGH, NEW DELHI-5

The 9th October, 1989

- 914/Del/89. Dorr Oliver Incorporated, "Corn steeping process and apparatus".
- 915/Del/89. ICI Australia Operations Proprietary Ltd, "Ceramic powders". (Convention dute 13th October, 1988) (Australia).
- 916/Del/89. C. R. Bard, Inc, 'Baloon dilatation catheter with integral guidowire".

The 11th October, 1989

- 917/Del/89. Devtech Inc, "A preform for a monobase container".
- 918/Del/89. The B.F. Goodrich Co, "Process for polymerizing vinyl monomers in a thickened aqueous medium". [Divisional date 30th December, 1986].

The 12th October, 1989

- 919/Del/89. Hemant Dhingra, "Rotary internal combustion engine".
- 920/Del/89. Hemant Dhingra, "Rotary internal combustion engine".
- 921/Del/89. Motorola Inc, "Power conservation method and apparatus for a portion of a predetermined signal".
- 922/Del/89. Courtaulds Coatings Ltd, "Coating compositions". (Convention date 13th October, 1988) (U.K.).
- 923/Del/89. Motorola Inc, "Digital automatic gain control".
- 924/Del/89. Courtaulds Coatings Ltd. "Antifouling coatings." (Convention date 13th October, 1988) (U.K.).

The 16th October, 1989

- 925/Del/89. Ashesh Chandra Mishra, "Population (fertility and sterility) control method for living beings".
- 926/Del/89. Vicente Lopez De Foronda Fernandez, "Improvements introduced in air impact molding machines".
- 927/Del/89. Gregory Gould, "Method and apparatus for auditing means used for measuring characteristics of a bulk material and for extracting an aliquot from a bulk material convention".
- 928/Del/89. Piaggio Veicoli Europei S.r.l, "Indicator unit displaying the running position of the speed gear in a vehicle, in particular in a two-wheeler".
- 929/Del/89. Motorola Inc. "Power conservation method and apparatus for a portion of a synchronous information signal".
- 930/Del/89. Imperial Chemical Industries PLC, "Chemical hybridisation of dicots". (Convention date 14th October, 1988) (U.K.).
- 931/Del/89. Imperial Chemical Industries PLC, "Chemical hybridisation of dicots". (Convention date 14th October, 1988) (U.K.).

The 17th October, 1989

932/Del/89. Cosmo Films Ltd, "A process for the preparation of synthetic paper".

- 933/Del/89. Shri Ram Institute for Industrial Research, "A process for the preparation of cyclized rubber".
- 934/Del/89. Thomson Consumer Electronics, "Process and device for movement estimation in a sequence of animated images".
- 935/Del/89. Telemecanique, "A safety device for a switching appliance formed by assembling together-several removable modular elements".

The 18th October, 1989

- 936/Del/89. Standipack Pvt. Ltd, "An improved construction of a dispenser".
- 937/Del/89. Standpack Pvt. Ltd, "An improved construction of a dispenser".
- 938/Del/89. Standpack Pvt. Ltd, "A dispenser".
- 939/Del/89. The Procter & Gamble Co, "Liquid laundry detergent with curable amine functional silicone for fabric wrinkle reduction".
- 940/Dcl/89. The Procter & Gamble Co, "Acidic liquid fabric softner with yellow color that changes blue upon dilution".
- 941/Del/89. Exxon Chemical Patents, Inc, "Zeolites for reforming catalysts".
- 942/Del/89. Zeman Bauclemente Produktionsgesellschaft m.b.h, "Process and device for roll-bending profile sheets metal".
- 943/Del/89. Biuro Studiow Projektow I Realizacji Inwestycji Przemyslu Nieorganicznego "BIPROKWAS", "Method of carbonation of ammoniated brine precarbonated in the solvay ammonia soda process".
- 944/Del/89. Vsesojuzny Nauchno Issledovatelsky I Proektny Institut Aljuminievoi, Magnievoi I Elektrodnoi Promyshlennosti, "Mechanical shaft-end seal assembly".
- 945/Del/89. The Standard Oil Co, "Catalyst and catalyst precursor containing vanadium and antimony".

The 19th October, 1989

- 946/Del/89. Council of Scientific & Industrial Research, "Improvement in or relating to the process for manufacture of fuel gas from slack solid fuel particularly high ash coal".
- 947/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of a compounds from lignin a paper mill waste and formaldehyde which is useful to remove mercury from industrial wastes".
- 948/Del/89. Council of Scientific & Industrial Research, "An improved automatic burette".
- 949/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of cementtious binder from aluminium industries waste, RED MUD".
- 950/Del/89. Council of Scientific & Industrial Research, A synergistic fire retardant composition for natural rubber and its products and natural rubber and its products incorporating the fire retardant composition".
- 951/Del/89. Council of Scientific & Industrial Research, "A direct reading portable atmospheric corrosion monitor".
- 952/Del/89. Council of Scientific & Industrial Research, "A method for preparation of ultrafine silicon carbide powder from cashew nut shell oil resin".
- 953/Del/89. Council of Scientific & Industrial Research, "A process for the synthesis of a N-substituted amides of L-tyrosyl-D-alanyl-glycyl-l-n-methyl-phenylalanylglycine".

- 954/Del/89. Council of Scientific & Industrial Research, "Process for the preparation of crystalline titanium silicate TS-2".
- 935/Del/89. Council of Scientific & Industrial Research, "An improved process for the preparation of crystal-line titanium silicate TS-1".
- 955/Del. 89. Council of Scientific & Industrial Research, "An Process for the preparation of crystalline metallosilicate material".
- 957/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of catalyst composite material".
- 958/Dcl/89. Council of Scientific & Industrial Research, "A process for reforming of pyrolysis naptha".
- 959/Del/89. Council of Scientific & Industrial Research, "A process for the preparation of vapour phase inhibitor suitable for protection of ferrous materials from atmospheric corrosion".
- 960/Dcl/89. The B.F. Goodrich Co., "Modification of vinyl dispersion resins for improved elasticity and hand".
- 961/Del/89. Bonas Machine Co. Ltd, "Heald control system". (Convention date 21st November, 1988) (U.K.).
- 962/Del/89. The Lubrizol Corporation, "Liquid compositions containing carboxylic esters".
- 963, Del/89. Hunter Douglas Industries B.V., "Tape spacer". (Convention date 4th November, 1988) (U.K.).

The 20th October, 1989

- 964/Del/89. Barry L. Butler, "Wind resistant two axi tracker for energy or radiation concentration".
- 965/Del/89. Esco Corporation, "Method of installing a mining tooth point".
- 966/Del 89. BP Chemicals Ltd, "Method for producing a filled water-cross-linkable silane copolymer composition".
- 967/Del/89. Blendax GmBH, "Process for producing bristle materials".
- 968/Del/89. Standipack Pvt. Ltd. "A dispenser for use in a bag and box packaging system".

OPPOSITION PROCEEDINGS

An opposition has been entered by Vikram Forgings & Allied Industries Pvt. Ltd. to the grant of a patent on application No. 164840 made by Trade and Industry Private Limited.

PATENTS SEALED

159287 161658 162055 162410 164067 164108 164319 164473 164505 164685.

CAL - 4

DEL - 3

MAS - 2

BOM - 1.

COMMERCIAL WORKING OF PATENTED INVENTIONS

ELECTRICAL LIST NO. 1

The following patents in the field of Electrical Engineering Industry are not being commercially worked in India as admitted by patentees in the statements filed by them under section 146(2) of the Patents, Act, 1970 inrespect of calendar year 1988 generally on account of want or request for licenses to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a license for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the Invention
1	2	3	4
149716	2-8-1979	Brakes India Ltd. Padi, Madras-600 050 Tamil Nadu, India.	An electric switch for direct current circuits.
158715	17-11-1983	(Dr.) Jose Thaikattil Physician University Health Centre, Calicut University P.O. Kerala State, India.	A tamper-proof seal for electric lamps.
159245	30-1-1984	Hoschst Aktiengssellschaft D-6230 Frankfurt am Main 80, Federal Republic of Germany	A process for the preparation of a catalytically active electrode material for preparation of a catalytically active electrode material for oxygen consuming electrode.
148076	19-11-1979	MANDAYAM AMMANJI SRISHAILA No. 1, 9th Cross Road, Swimming Pool Extension, Bangalore-560 003, India.	A device for concealed electrical wiring.
154717	5-9-1981	(DR) JOSE THAIKK ATTIL University Health Centre, Calicut University P.O. 673635, Kerala State	A holder for electric lamps.
158759	30-1-1984	ISOVOLTA OSTERREICHISCHE ISOLIE- RSTOFFWERKE AG. ISOVOLTA, A-2351 Wiener Neudorf Austria.	A process for the preparation of an electrical insulating material.

1	2	3	4
157625	11-4-1984	Kabelschlepp GmbH. Marienborner Str. 75, 5900 Siegen 1 West Germany.	An energy line transmission chain.
153127	17-11-1980	Oronzio De Nora Impianti Electrochimici S.P.A. Via Bistolfi, 35-20134 Milan, Italy.	A bipolar diaphragm or membrane electrolyzer.
153129	17-11-1980	Do.	Noval electrolyser having means for electri- cally connecting valve metal anode ribs and cathodically resistant metal cathode ribs.
154715	12-12-1980	Do.	A process for preparing a homogeneous phase of atleast two different metals.

COMMERCIAL WORKING OF PATENTED INVENTIONS

MECHANICAL LIST NO ;1 & GENERAL

The following Patents in the field of Mechanical and General Engineering Industry are not being commercially worked in India as admitted by Patentees in the statements filed by them under section 146(2) of the Patents Act, 1970 in respect of calendar year 1988 generally on account of want of request for licences to work the Patented invention. Persons who are interested to work the said Patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent 2	Name & Address of the Patentee	Title of the Invention 4
147745	22-7-1977	AHMEDABAD TEXTILE INDUSTRY'S RESEARCH P.O. POLYTECHNIC, AHMEDABAD, 380015, GUJARAT, INDIA.	A rapid abrasion testing means for textile fabrics.
148043	12-12-1978	Do.	A method and equipment for recovery of high boiling petroleum fractions and for terpentine present in a gaseous mixture issuing as exhaust from textiles and like dryers.
148672	12-12-1978	Do.	A novel process and apparatus to recover steam and hot water from blow-down Water of a boiler.
155925	29-8-1983	Do	An improved top roller cleaner for textile machinery in particular for ring frames, fly frames and draw frames.
157585	6-12-1984	Do	Improvements in or relating to a bobbin for ring frames used in spinning mills.
160028	29-1-1986	Do.	Device for reducing noise in course of direct stem injection into liquors from heating thereof.
157620	23-1-1985	Ashok Pravinchandra Dave and Kaushik Pravinchandra Dave, A/8, Arunodaya, Juhu Lane, Andheri (W), Bombay-400 058, Maharashtra, India.	An improved luggage having instantly attachable and detachable scat.
160618	21-6-1985	Balcke-Durr A.G. Homberger Str. 2, 4030, Ratingen, 1, West Germany.	An improved cleaning device for regenerative heat exchangers.
160619	21-6-1985	Do.	An improved regenerative heat exchanger.
149290	9-7-1980	CEMENDIA COMPANY LTD., Stoelcrote House, Dinshaw Vachha Road, Bombay- 400 020, Maharashtra, India.	Pile and linear assem ly process for the manufacture thereof and method of piling employing such assembly.
158627	13-3-1984	(Dr.) Dipak Chandiramani 3/1, Maitri Park, Chembur, Bombay-400 071, India.	An improved method of shielded metal-arc welding resulting in the reduction of hydirogen pick-up in weldments and weldments obtained thereby.

1	2	3	4
142800	28-11-1975	Elpro International Ltd., Chinchwad, Poona-11033, Maharashtra, India.	A Cassette for holding X-ray film for taking X-ray picture.
146252	30-8-1977	Do.	Cobalt-60 teletherapy unit for radiation eg. for treatment of cancer.
146942	20-8-1977	Do	A cobalt 60 teletherapy unit.
146943	19-8-1977	Do·	Means for locking the source drawer to the pneumatic means of a cobalt 60 telethorapy unit.
146944	20-8-1977	Do.	An adjustment means for the source head of a cobalt 60 teletherapy unit.
147002	20-8-1977	Do.	Source head of a cobalt 60 teletherapy unit.
146820	19-11-1976	Hindustan Lever Limited, 165-166, Hindustan Lever House, Backbay Reclamation, Bombay-400 020 Maharashtra India,	Toothbrushes.
147562	19-1-1978	D ₀ .	An improved device for pouring pourable materials such as liquids slurries and colloids from a container.
149288	7-3-1979	KABELSCHLEPP GmbH, Naruebrirber/Str. 75, D-5900, Siegen 1, West Germany.	Improvements in supply line support ducting.
152929	11-5-1981	Do.	Energy transmission conduit.
152930	11-5-1981	Do.	Energy transmissio conduit.
161589	29-1-1986	Do.	Guide chain for guiding energy lines.
162419	11-11-1986	Meka Papa Roa, Amma Linos Pvt. Ltd., Woman Graduates Union Road, Colaba Bombay-400 005. Maharashtra, India.	An improved process for the manufacture of hollow section beams for buildings.
162420	28-10-1986	Do.	A mould for manufacturing of pro-cast beams or troughs.
160860	30-10-1984	Narendra Sheth, Nawaz Court, 3rd Floor, 128-C/F, August Kranti Marg, Bombay-400 036 Maharashtra, India.	Solar energy disc type concentrating collector.
150919	16-6-1978	Sandvik Aktiebolog, Fack 5-811 01, Sandviken 1, Sweden.	Bearing means for rotary drill bits.
154583	26-3-1981	Do.	Drill tool.
158207	6-9-1984	Vijay Govind Gokhale, Bombay Chemicaws Pvt. Ltd., 129, Mahatma Gandhi Road, Bombay-400 023. Maharashtra, India.	A pre fabr icated composite door or window frame.
162031	4-3-1986	Do.	A protective fibreglass support device for a burning type mosquito repellant coil.
148580	28-9-1978	Brakes India Limited, Padi, Madras-600 050, Tamii Nadu, India.	A brake fluid reservoir of a hydraulic braking system.
148974	28-9-1979	Do.	A self-operative device for adjusting the brake lining with respect to the brake drum of a braking system.
149236	16-6-1980	Do.	An improved cam brake.
149241	5-4-1980	Do.	A pedal mechanism for a hydraulic brake system.
153829	25-10-1982	Do.	5/ cam brake.
156335	19-10-1982	Do.	A dust cover for wheel cylinders of vehicle hydraulic brake.

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147675	3-4-1978	Erodhula Satyanarayana, 13-2-13, Moses House, Maharanipet, Visakhapatnam 530 002, Andhra Pradesh, India.	Improvements in or relating to stoves.
144734	6-5-1975	Girling Limited, King's Road, Tysely Birmingham 11, England.	Brake pressure control valves.
145031	8-5-1975	. Do.	Railway vehicle disc brakes.
158724	13-3-1984	Hoechst Aktiongesellschaft-D-6230, Frankfurt am Main 80. F.R. of Germany.	Apparatus for making red phosphorus.
150973	25-8-1981	India Pistons Ltd: Huzur Gardons, Somblam, Madras-600 001 Tamil Nadu, India.	A method of manufacturing compression rings and compression rings manufactured thereby.
160246	5-4-1984	I.S.C. Smelting Limited, 6 St. James's Square, London SWIY 4 LD, England.	An apparatus for dispersion of liquids in gases.
160594	3-4-1984	IZUMI MASANIKO, 13-14, 2-Chome, Nishimagome, Oota-ku, Tokyo, Japan.	Apparatus for cleaning the inside of a room.
158287	29-6-1984	Karnataka Filters Private Limited, 14-A, Bommasandra, Industrial Area, Bangalore 562158-Karnataka, India.	A novel attachment for use with and propulsion of a cycle.
141053	13-2-1975	Lucas Industries Public Limited Co., Great King Street. Birmingham B 19, 2XF, England.	Improvements in disc brakes for rail vehicles.
142145	20-3-1975	Do.	Improvements in vehicle disc brakes.
162334	4-9-1984	Do.	Actuator assemblies for vehicle brakes.
152445	2-5-1985	Do.	Improvments in disc brakes.
142345	18-9-1974	Do.	Brake pressure control valves.
143076	25-10-1975	Do.	Improvements in actuator assemblies for vehicles brakes.
146711	1-6-1976	Do.	Improvements in and relating to brake assem-
146712	1-6-1976	Do.	blies. Improvements in and relating to brake assemblies.
146713	1-6-1976	Do	Improvements in or relating to brakes.
146714	1-6-1976	Do.	Improvements in or relating to disc brakes.
148029	31-1-1978	Do.	Hydraulic braking systems for vehicle.
149294	5-7-1979	Do.	A servo booster assembly for a vehicle braking system.
149295	5-7-1979	Do.	A servo booster for a vehicle braking system.
149296	5-7-1979	Do.	A servo boosters assembly.
149297	5-7-1979	Do.	A Servo booster for a vehicle braking system.
149394	8-2-1980	Do.	A vehicle disc brake assembly.
149638	11-12-1979	Do.	A railway disc brake assembly.
159774	23-12-1983	Do.	Sliding calipar disc brake with pad support.
149798	29-10-1979	Do.	Brake actuating assembly for a vehicle braking system.
149834	19-9-1979	Do.	A disc brake assembly,
149835	9-1-1980	Do.	A friction pad assembly for rail vehicle brake.

- 1	2	3	4
150356	17-11-1979	Lucas Industries Public Limited Co., Great King Street, Birmingham B 19, 2XF, England.	Servo boosters for vehicle braking system.
150358	5-3-1980	Do.	A brake friction pad or shoe assembly.
15 0461	8-2-1980	Do.	A friction lining wear indicator for shoe drum brake.
150531.	19-3-1979	Do.	Improvements in disc brakes for railway vehicles
150635	9-1-1980	Do.	Vehicle load sensing arrangement.
150636	5-3-1980	Do.	Drum brake adjusters.
150673	7-7-1980	Do.	A piston assembly for hydraulic master cylinder.
150779	21-5-1980	Do.	Automatically adjustable shoe drum brake.
150822	9-2-1979	pó.	Improvements in fluid-pressure operated brake for vehicles.
151352	21-5-1980	Do.	A brake having an automatic adjuster.
151873	7-4-1981	Do.	Master cylinder.
152181	23-2-1981	Do.	A servo booster for vehicle braking systems.
152469	1-4-1981	Do.	A method of manufacturing a master cylinder.
153873	5-8-1981	Do.	Master cylinder.
154071	22-12-1981	Do.	Friction pad assembly for use in a disc brake.
155601	15-10-1981	Do.	Vehicle drum brakes.
155604	4-12-1981	Do.	Automatic adjuster for a shoe drum brake and shoe drum brake incorporating the same.
156336	20-4-1983	Do.	A disc for a vehicle disc brake.
156719	20-11-1982	Do.	Actuator for shoe-drum brake and a shoe-drum brake incorporating such actuator.
157182	11-1-1983	Do.	Internal shoo drum brake.
157186	20-4-1983	Do.	A disc for a vehicle disc brake.
157190	16-5-1983	Do.	An automatic adjuster for a shoe drum brake
160399	18-5-1984	Madavan Parthasarathy, No. 12 Qld Trunk Road, Pallavaram, Madras-600 043, Tamil Nadu, India.	d system for drying of materials.
160627	18-5-1984	Do.	A water cooler.
158723	17-2-1984	Mitsuboshi Belting Ltd., No. 1-21, Hamazoe- Dori, 4-Chome, Nagata-ku, Kobe, Japan.	Power-transmitting V-belt.
159224	17-2-1984	Do.	Power transmitting V-belt.
159226	18-2-1984	Do.	Method for manufacturing elongated cogged V-belt.
159640	18-2-1984	Do.	Toothed rubber V-belt.
160496	6-3-1984	Do,	Heat exchanging device with heat exchanging plates.
160482	30-3-1982	Normalair-Garrett (Holdings) Ltd; Westland Works, Yevoil, Somerset, England.	Molecular sieve type gas separation systems.
159658	1 5-3 -1984	Palitex Project-Company GmbH, Weeserweg 60, 4150 Krefeld 1, West Gormany.	A thread pull-off aid of variable geometrical configuration for the overhead drawing-off of a thread from a creel bobbin.
160376	11-6-1984	Ristvedt-Johnson INC. 891 Fechanville Drive. Mount, Prospect, Illinois 600561, USA.	A coin sorter apparatus for receiving and sorting.

COMMERCIAL WORKING OF PATENTED INVENTIONS

. CHEMICAL ENGINEERING LIST-I

The following patents in the field of Chemical Engineering Industry are not being commercially worked in India as admitted by patentess in the statements filed by them under section 1A6(2) of the Patents Act, 1970 in respect of Calendar year 1988 generally on account of want of request for licences to work the patented invention. Persons who are interested to work the said patents commercially may contact the patentees for the grant of a licence for the purpose.

Patent No.	Date of Patent	Name & Address of the Patentee	Title of the invention
1	2	3	4
146879	5-11-1976	Ahmedabad Textile Industry's Research (ATIR) P.O. Polytechnic, Ahmedabad 380 015, Gujarat, India.	Process of obtaining dyeing or printing effects on fabrics.
149098	17-3-1979	Do.	An improved process for imparting flame retardancy to collulosic fibres.
154711	30-4-1982	Hindustan Ciba-Geigy Ltd., Aarey Road, Goregaon East, Bombay-400 063, Maharashtra, India.	Process for the manufacture of novel guani- dine derivatives.
155606	22-1-1983	Do.	A novel process for the preparation of 5-aralkyl-2, 4-diaminopyrimidines.
155707	22-1-1983	Do.	A novel process for the manufacture of 5-aralkyl-2, 4-diaminopyrimidines.

1	2	3	4
158780	18-1-1985	Hindvstan Ciba-Geigy Ltd. 14, J. Tata Road, Bombay-400 020, Maharashtra, India.	A process for the preparation of Benzimi- dazole carbamates having pharmacological
159785	26-7-985	Do.	properties. A process for the preparation of novel benza-zole derivaties and their salts.
146527	28-4-1977	Hindustan Lever Ltd. 165-166 Hindustan Lever House, Backbay Reclamation, Bombay-400 020.	A method of purifying perfumery materials.
146699	12-1-1977	Do.	An antiperspirant composition.
147005	12-10-1976	Do.	Heavy duty detergent composition.
147013	8-9-1977	Do.	Process of rofining triglyceride oils.
147266	10-2-1978	Do.	Deodorant detergent composition.
147286	15-2-1978	Do.	Preparation of allylic terpenic esters.
147448	4-8-1978	Do.	Process for improving colour and removing undesirable odour of scap.
147598	15-2-1978	Do.	A method of purifying allylic tertiary esters by distillation.
147962	15-5-1978	Do.	A process for making particulars detergent compositions.
148180 ·	15-1-1979	Do,	Process for the proparation of alkyl benzene mone-sulphonic acid.
148996	24-4-1979	Do.	Synergistic compositions for promoting hair growth.
149583	10-7-1979	Do.	A method of extracting n-paraffins (Waz) from mineral oil containing n-paraffins.
149734	26-2-1979	Do.	Process for properation of synthetic fatty acid soap from paraffins.
149765	9-1-1979	Do.	Deodorant detergent composition and process of preparing the same.
150018	27-11-1979	Do.	A process for making an improved dimensionally stable detergent bar.
150029	27-11-1979	Do.	A process for making an improved dimensionally stable detergent bar.
150204	24-7-1980	Do.	A process for making plant growth nutrient/ stimulant.
150249	20-3-1979	Do.	Non-germicidal deodorant toiler soap bar and process for proparing the same.
151014	21-6-1979	Do.	A process for obtaining basic aluminium halice such as chloride, bromide, or iodide having improved antiperspirant properties.
151317	29-1-1981	Do.	Process for the manufacture of water soluble alkali metal salts or sulphonated alkyl osters of long chain fatty acids.
151322	18-1-1980	Do.	Liquid duty dishwashing liquid detergent compositions.
151711	6-7-1981	Do.	A process for preparing hardened and dehy-droxylated easter fatty acid feed stock.
1 52 715	4-9-1981	Do.	A method for preparing non-edible dehydroxy-lated short chain $(C_1 \text{ to } C_4)$ esters of hardened castor acids for use in soap making, lubricants and paints.

152722 8-1-1980 Hindustan Lever Ltd. 165-166 Hindustan Lever-House, Backbay Reclamation, Bombay-20. 153988 6-8-1980 Do. Synergistic deodorant computations of the control	ositions.
153989 6-8-1980 Do. Synergistic Deodorant con	nposition.
153990 4-9-1981 Do. Method of deciling of sla deciled stack was obtained	
Do. A synergistic liquid dish composition for washing paucepans.	
153992 17-3-1982 Do. Method of upgrading linally ing chlorine from impuritie	
154319 30-10-1980 Do. A process for preparing an the manufacture of a determination of the manufacture of a determination of the manufacture of a determination of the manufacture of th	
154705 12-1-1981 Do. A process for preparing sp powders and detergent pow	
154776 7-2-1981 Do. Process for the manufacture	re of calcium soap.
154777 7-2-1981 Do. A process for the preparametal of an organic carbo	
155041 9-4-1981 Do. A detergent bar having he washing in ultra-violet ligh	
155044 5-9-1981 Do. A method of manufacturin bars of improved hardness	ng built detergent
155045 5-9-1981 Do. A method of manufacturin bars of improved hardness.	
155073 17-3-1982 Do. Detergent bars having im to sogginess and reduced r	
155097 17-6-1981 Do. Particulate, soap-based deter	gent composition.
Do. A process for the proparate thyl derivative capable of the funery components from product.	being used as per-
155244 18-11-1982 Do. A process of making soap.	,
Do. A high internal phase water and a process for preparing	
Do. A bleaching composition of xide compound and a heavy	
Do. A process for the preparation isotherms from ethionic ac	
Do. Process for regenerating containing adsorbent used for refining	. 7.
156363 11-8-9182 Do. Manufacture of acyl isothion	natos.
Do. A method for washing fabr taining calcium hardness and position therefore.	
156389 26-7-1982 Do. A synergistic detergent com	nposition.
156577 24-7-1982 Do. A synergistic detergent com	npositions.
156578 24-7-1982 Do. Detergent composition.	
Do. A process for preparing determinate compounds.	ergent active sul-

1	2	3	4
156587	10-11-1982	Hindustan Lever Ltd. 165-166 Hindustan Lever House, Backbay Reclamation, Bombay-	An improved liquid abrasive cleaning composition,
157133	25-3-1983	20. Do.	An improved process for preparing superfat- ted soap bars having improved properties such as improved lather and reduced mush pro- perties from conventional raw materials and soap thereby
157134	25-3-1983	Do.	An improved method of subjecting a soap containing material to a hardening process to obtain hard soap bar and soap bars obtained thereby.
157135	25-3-1983	Do,	An improved process for processing soap feed stocks to provide soap bars having reduced grittiness and soapbars obtained thereby.
157137	25-3- 1983	Do.	An improved process for preparing soap bars having increased transparency and soap bars thereby obtained.
£ 57143	5-5-1983	Do.	A process for the preparation of Nickel upon transition alumina catalysts.
157274	25-3-19 83	Do.	An improved process for preparing soap bars having modified phases and soap bars obtained thereby.
157420	9-3-1984	Do.	Improved peroxide adduct containing bleach compositions.
158153	19-7-1984	Do.	An improved method of manufacturing deter- gent bar having uniform properties.
158157	10-11-1983	$\mathbf{D_0}$.	A liquid detergent composition having high foaming characteristics.
158159	10-11-1983	Do.	A liquid determent composition having high foaming characteristics.
158201	11-6-1984	Do.	An improved process for the preparation of carboxyalkyl derivatives of polygalactoman- nans.
158390	18-8-1983	Do.	A liquid scouring cleanser composition.
158632	10-11-1983	D ₀ .	A liquid detergent composition having improved foaming characteristics.
158636	16-12-1983	Do.	A built detergent bleach composition containing manganese compound which delivers manganese ions in aqueous solutions.
158637	16-12-1983	Do.	A built detergent bleach composition containing manganese compound which delivers manganese ions in aqueous solution.
158761	14-3-1985	Do.	Powder detergent compositions with modified sodium chloride.
158778	22-1-1985	Do.	A method for sulphonation of fatty acid esters.
158779	12-12-1983	Do.	A particulate solid detergont composition.
158784	7-3-1984	Do.	Processing of polysaccharides.
158785	4 -3-1985	Do.	A process for the preparation of groundaut cake suitable as a component for animal feed-stuff.
158786	4-3 -1985	Do.	An improved process for the manufacture of 3, 4, 5-trimathoxybenzaldehyde.
158827	29-5-1982	Do.	A process for the preparation of surface active fatty acid ester of alkali metal isethionates.

1	- `2	3	4
159778	19-1-1984	Hindustan Lever Ltd. 165-166 Hindustan Lever House, Backbay Reclaration, Bombay-20.	A process for the manufacture of a detergent
159933	15-10-1984	Do.	Process for preparation of transparent detergent bars.
159938	6-11-1984	Do.	A method of preparing manganese adjuncts for use as bleech catolyst.
159969	27-6-1985	Do.	A process for preparing a plant growth nutrient composition.
159974	25-4-1984	Do,	Foaming aqueous liquid detergent composition.
169006	25-9-1984	Do.	A stable gas entrained toothpaste having increased viscosity and fluffy appearance.
160030	24-7-1982	Do.	A process for the preparation of detergent compositions.
160031	24-7-1982	Do.	A synergistic detergent composition.
160645	14-3-1985	Do.	Improved method of preparing modified so- dium chloride for use in powder detergent compositions.
160861	4-12-1984	Do.	Alkaline built detergent bleach composition.
160862	4-12-1984	Do.	Alkaline built detergent bleach compositions.
1610 99	23-11-1984	Do.	Detergent compositions.
161100	29-1-1986	Do.	A process for the manufacture of aluminium fluoride from ammonium fluoride.
161103	20-12-1984	Do.	Process for preparing a transition metal silicate catalyst.
161104	3-12-1985	Do.	Improvements in or relating to process for the preparation of acetylindans.
161109	28-1-1985	Do.	A method of manufacturing fatty acid (C8-C22) ester (C1-C4) sulphonates.
161111	7-6-1985	Do.	Particulate built detergent compositions.
161316	29-1-1986	Do.	A process for recovering fluorine value from sodium fluorosilicate.
162417	5-7-1985	Do.	Process for the preparation of Nickel/alumina catalyst.
162418	5-7-1985 .	Do.	Process for the preparation of Nickel/alumina/silicate catalysts.
162632	9-5-1985	De.	Detergent compositions.
162633	9-5-1985	Do.	Homogeneous foaming detergent composition in gel form.
162637	2-9-1985	Do.	An improved process for the manufacture of built detergent bars.
158767	12-12-1984	Jaysynth Dyechem Pvt. Ltd. E-16 Everest, Tardeo Road, Bombay-400 084, Maharashtra, India.	A novel process for the preparation of novel green reactive dyes.
154778	27-2-1981	The Dharausi Morarji Chemical Co. Ltd. 317-21, Dr. Dadabhoy Naoroji Road, Bombay-400 001, State of Maharashtra, India.	An improved process for manufacture of phosphoric acid and gypsum from rock phosphate.

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1	2	3	4
159222	7-2-1984	Alban Putz, Hellgasse 10, 5456 Rheinbrohl, Federal Republic of Germany.	Method of manufacturing a die-casting injection moulding mould and a mould manufactured.
160131	18-2-1984	Andhra Oil & Cake Products Ltd. 43-20-25 A, Venkatajunagar, Dondaparthi, Visakhapatnam 530016, Andhra Pradesh, India.	Process for the production of calcium oxid or quicklime from powdered lime sludgs.
148853	25-4-1980	Bangaru Venkata Ram ilakshi Narayana. 18-5-11 Bondadavari Street. Palakoi-534260, West Godavari, Dist. A.P.	An insect repellent candle and a method i manufacturit g such candle.
159600	21-3-1984	Chuo Kagaku Co. Ltd. 5-1, 3-Chome, Miyaji Kounesu-shi, Saitama-ken, Japan.	A process for producing a resin foam by aquous medium.
159709	8-3-1984	FCN Srl, Via 5 Bosco 3, Treviglio, Bergamo, Italy & Alphatima Ltd, of St. Peter House, 119 High Street, Berkhamsted, Hertfordshire, Great Britain.	Process for the preparation of pharmaceutic compositions having antineoplastic activities
160591	31-3-1984	Granulite Ltd. Millbuck House, Corporation Street, Rugby, CV21 2DW, England.	'A process for the manufacture of buildin materials.
160411	23-3-1984	Hoochst Aktiongevollschaft, D-6230 Frankfurt am Main 80, F.R.G.	Process and appara us for making phosphoroupantoxide with utilization of reaction he
160622	17-4-1984	Hoochst Aktiengesellschaft. D-6230 Frankfurt am Main 80 F.R.G.	Process for making phosphorus pentoxide w utilization of the reaction heat.
147264	9-3-1978	Kontiki Chemicals & Pharmaceuticals Pvt. Ltd. A.K. Office Bldgs. Mill Road, Baliapata Kerala State, India.	Process for the preparation of coir derivativem,
147307	8-1-1979	Do.	Process for preparing derivatives from coff-husks.
147418	9-3-1978	Do.	A process for preparing an improved adhesive substance.
147937	24-1-1979	Kontiki Chemicals & Pharmaceuticals Pvt. Ltd. A.K. Office Bldg., Baliapatam, Canna- nore-670 010, Kerala.	Process for the production of cellulose.
154070	4-6-1982	Do,	Process for the production of heavy metal ion adsorbent.
154863	20-1-1981	Do.,	Improvements in or relating to aminoplastic synthetic resin adhesives.
158416	12-10-1984	Do.	Process for the proparation of a colouring matter from coconut shell.
158230	10-8-1984	Monsanto Company, 800 North Lindbergy Boulevard, St. Lou is, Missouri 63167, U.S.A.	Process for preparing 2-6 substituted pyridine compounds.
160125	10-8-1984	Do.	A process for preparing substituted dihydropyridine isomers.
159598	22-7-1981	Stamicarbon B.V., P.O. Box 10,6160 MC Geleen, The Netherlands.	Process for the preparation of copolymers of ethylene with at loast one other I-alkene.
160416	24-5-1984	The Texas A& M University System, College Station. Texas 77843, U.S.A.	Method for producing a selected polypeptide,

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PART III—SEC. 2]

146167	147456	147791	147965	149513	149548	149809
149811	149910	150297	150935	151024	151059	151609
151860	152099	152496	152826	153408	153883	154232
154256	154458	154609	154890	155575	156098	157317
157342	157613	157614	157852	157854	158199	158273
153450	158501	151545	159426	169444	159629	159663
159687	160962	161016	161116	161340	161601	161631
161728	161792	161982	162002	162023	162148	162160
162657	163197	167669	163701	163703	164211	164214
164220	164336	164 361	164363	164365	164366	164368
164369.						

RESTORATION PROCEEDINGS

Notice is hereby given that an application for restoration of Patent No. 159830 da'ed the 14th March 1983 made by Dr. Binod Kum;r Vaima on the 17th February 1989 and notified in the Gazette of India, Part III, Section 2 da'ed the 17th June 1989 has been allowed and the said patent restored.

Name Indexes of applications for Patents for the month of December,: 1983 (Nos. 988/Cal/88 to 1076/Cal/88, 328/Bom/88 to 352/Bom/88, 859/Mcs/88 to 934/Mas/88 and 105)/Del/88 to 1175/Del/88).

Name	Appln. No.		
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Α

AVL Gesellschaft Fur Verbrennungs-Kraft-maschinen und messtechnik MBH —1060/Del/88.

Acme Resin Corporation.—899/Mas/88, 907/Mas/88.

Alcan International Limited.—1123/Del/88, 1161/Del/88.

Allied Signal Inc.—1077/Del/88, 1137 'Del/88.

Altrack Ltd.-882/Mas/88

American Coil Currency. Equipment Corporation.—1114/ Del/88.

American Standard Ind .- 917/Mas/88, 918/Mas/88,

American Telephone & Telegraph Co.-894/Mas/88.

Ammonia Casale S.A.—916/Mas/88.

Appropriate Technology Development Association.—1118/Del/83.

Arctic Ice, Inc.-1059/Cal/88.

Armco Advanced Materials Corporation.—1075/Cal/88.

Atochem. -- 895/Mas/88, 900/Mas/88.

В

BBC Brown Boverl AG.-885/Mas/88.

Balakrishnan, V.- 891/Mas/88.

Bangrie De France.—1126/Del/88.

Belorussky Politekhrichesky Institut.—994/Cal/88, 1053/Cal/88, 1138/Del 88, 1139/Del/88.

Benesh, A. H .- 1032/Cal/88.

Bereuter. H.-1013/Cal/88.

Bharat Heavy Electricals Ltd.-1119/Del/88.

Binacchi.-1000/Cal 88.

Boots Co. (India) 1 td. The.—335/Bom/88, 336/Bom/88, 337/Bom/88, 338/Bom/88, 339/Bom/88.

Borden (U.K.) Itd. -919/Mas/88.

C

C.S.P.A.—1174/Del/88.

C.S.R.L.-1000/Cal/88.

Carrier Corporation.—993/Cal/88.

Name	Appln. No.	
	CContd.	

Central Silk Technological Research Institute, The.—878/ Mos/88.

Chembon Ltd.—1028/Cal/88.

Chattopadhyay, A.—1006/Cal/88, 1007/Cal/88.

Chaudhurj, P. B.—1044/Cal/88.

Chopra, M.—1154/Del/88.

Chronar 'Corp.—1172/Del/88.

Ciba-Giegy AG.,—1145/Del/88.

Co Artz.-1112/Del/88.

Colgate Palmolive Co.,—1143/Del/88.

Commonwealth Scientific & Industrial Research Organisation.—1026/Cal/88, 1148/Del/88.

Compagnie De Raffinage Et De Distribution Total France S.A.—1052/Cal/88, 1072/Cal/88.

Compak Systems Ltd.—1048/Cal/88, 1049/Cal/88.

Council of Scientific & Industrial Research.—1050/Del/88. 1051/Del/88, 1052/Del/88, 1053/Del/88, 1061/Del/88, 1062/Del/88, 1071/Del/88, 1061/Del/88, 1062/Del/88, 1071/Del/88, 1102/Del/88, 1103/Del/88, 1104/Del/88, 1105/Del/88, 1106/Del/88, 1107/Del/88, 1108/Del/88, 1109/Del/88, 1110/Del/88, 1128/Del/88, 1129/Del/88, 1130/Del/88, 1131/Del/88, 1132/Del/88, 1133/Del/88, 1134/Del/88, 1135/Del/88, 1155/Del/88, 1156/Del/88, 1157/Del/88, 1158/Del/88, 1168/Del/88, 1169/Del/88, 1170/Del/88, 1171/Del/88.

D

Dartnall Engineering & Innovation Pty. Ltd.—934/Mas/88.

Degussa Aktiengesellschaft.—1021/Cal/88.

Desai, M. H.-329/Bom/88.

Deutsche Voest-Alpine Industrieanlagenbau Gmbh, (Formerly Korf Engineering Gmbh).—1008/Cal/88.

Director Police Telecommunications.--1066/Del/88.

Dolgoff, E.-1175/Del/88.

Deutsche Voest-Alpine Industrieanlagenbau Gmbh, (Formergii USSR.-1018/Cal/88.

Doshi, R.T.—351/Bom/88.

Duriron Co. The.-990/Cal/88.

Dyachkov, V. A.—1144/Del/88.

Dyakonov, J. D.—1144/Del/88.

Dwivedi, P.—1163/Del/88.

E

Elf France.—1115/Del/88.

E.I. Du Pont De Nemours & Co.—1029/Cal/88, 1040/Cal/88, 1060/Cal/88.

E. R. Squibb & Sons, Inc.—1149/Dcl/88.

Electrolux Northern Ltd. (Formerly-known as Flymo-Ltd.).—1019/Cal/88.

Emitec Gesellschaft Fur Emission stechnologie MBI — 1057/Cal/88.

Energy Conversion Devices, Inc.—1141/Del/88.

Engelhard Corporation.—1041/Cal/88, 1042/Cal/88, 1043/Cal/88.

Engelhard De Meern B.V.-888/Mas/88.

Ethyl Corporation, 1142/Del/88.

THE GAZETTE OF INDIA, DECEMBER 16, 1989 (AGRAHAYANA 25, 1911) [PART III.—SEC. 2 1196 Name Appln. No. Apply, No. Name E-Contd. Ι Ethyl Corporation.—1142/Del/88. ICI Australia Ltd.—1148/Del/\$8. Europa Metalli, LMI S.p.A.—1136/Del/88. Indian Institute of Technology.—862/Mas/88. Exxon Research & Engineering Co.—1088/Del/88. 1089/Del/88, 1090/Del/88, 1091/Del 88, 1092/Del/88, 1093/Del/88, 1094/Del/88, 1095/Del/88, 1096/Del/88, 1197/Del/88, 1098/Del/88, 1099/Del/88, 1098/Del/88, 1099/Del/88, 1099/Del/88 Indo Gulf Explosives Ltd.—1150/Del/88. Inspector General Communication B.S.F.—1065/Del/88. Institutet for Verkstadsteknisk Forskning.—863, Mas/88. Del/88, 1098/Del/88, 1099/Del/88. Institut Mekhaniki Metallopolimernykh Sistem Akademii Nauk Belorusskoi SSR.—1001/Cal/88, 1034/Cal/88. Iyano-Frankovsky Institut Nefti I Gaza.—1056/Cal/88. FMC Corporation.—924/Mas/88, 925/Mas/88. FMI Full mold International Gmbh.—1062/Cal/88. J Ferring B.V.-875/Mas/88. Filtra Materials Research Pvt. Ltd.—331/Bom/88. Joseph, I. C.-874/Mas/88. Firestone Tire & Rubber Co., The -1083/Del/88. Jung, W.S .-- 866/Mas/88. Foseco International Ltd.-873/Mas/88. Juridical Foundation the Chemo-Sero-Therapqutic Research Institute.—906/Mas/88. Foscoc International Ltd.--1068/Del/88. Franz., H .-- 996/Cal/88. K Fratelli Lamberti S.p.A.—1065/Cal/88. Fried Krupp Gesellschaft Mit Beschrankter Haftung.-1069/ Kabushiki Kaisha Myukoma.—886/Mas/88. Cal/88. Kampen, W.H.-1061/Cal/88. Fuller Co.—1081/Del/88, 1113/Del/88. Karmakar, A. P.—1006/Cal/88, 1007/Cal/88. Kedves, L.—1068/Cal/88. G Key Ocean Services, Inc.—1047/Cal/88. GEC Plessey Telecommunication Ltd.—864/Mas/88. Klinger AG.—1055/Cal/88. Gajanan, N. V.-344/Bom/88. Kljuev, V. T.—1144/Del/88. General Motors Corporation.—896/Mas/88. Kornbaym, S.-1075/Del/88. Krupp Koppers Gmbh.--1014/Cal/88, 1015/Cal/88, 1024/Cal/88, 1025/Cal/88. G-Contd. Kumar, T. S. Dr.-932/Mas/88.

Geshwind, D. M.—1084/Del/88, 1086/Del/88, 1987/Del/88.

Ghoshal, N. C.—1006/Cal/88, 1007/Cal/88.

Ginwalla, A. P. Mr.-332/Bom/88.

Gopison, M.—909/Mas. 88.

Goswamy, S.—997/Cal/88.

Gupta, A.—1173/Del/88.

●upta, B. D.—1020/Cal. 88.

Gupta, B. Kr.—1152/Del/88, 1153/Del/88.

Gupta, S. L.—1067/Del/88.

Guy Geudfrin.-1038, 'Del/88.

Н

Hamlin Transmission Corporation.—903/Mas/88.

Hanko, L.-869/Mas/88.

Haynes International, Inc.—879/Mas/88.

Henkel Kommanditgesellschaft auf Aktien.—902/Mas/88.

Hindustan Lever Ltd.—334/Bom/88, 340/Bom/88, 346/Bom/88, 347/Bom/88, 348/Bom/88, 349/Bom/88, 350/Bom/88.

Hitachi Ltd.—1002/Cal/88, 1003/Cal/88, 1011/Cal/88, 1012/Cal/88.

Hoechst Aktiengesellschaft.—998/Cal/88, 999/Cal/88, 1067/Cal/88.

Hoechst Celanese Corporation.—1037/Cal/88, 1038/Cal/88.

Hoechst India Ltd.-342/Bom/88.

Hughes Aircraft Co.—1069/Del/88.

Laboratories Del Dr. Esteve S.A.-1165/Del/88.

L' Air Liquide, Societe Anonyme Pour L'Etude Etl' Exploitation Des Procedes Georges Claude.—1063/Del/88.

Kurgansky Nauchno-Issledovatelsky Institut Experimentalnoi

Kurgansky Nauchno-Issledovatelsky Institut Experimentalnei

Klinicheskoi Ortopedii I Travmatologii.—1030/Cal/83,

Lanxide Technology Co. LP.—1009/Cal/88, 1010/Cal/88, 1054/Cal/88.

La Telemecanique Electrique.—1100/Del/88.

Linde Aktiengesellschaft.-910/Mas/88.

1046/Cal/88.

Kuzmin, M. F.—1144/Del/88.

Kuznetsova, V. A.-1005/Cal/88.

Long Mile Rubber Co.-1082/Del/88.

Lubrizol Corporation, The.—1031/Cal/88, 1122/Del/88, 1159. Del/88, 1160/Del/88.

Lucas Industries Public Ltd. Co.—892/Mas/88, 893/ Mas/88.

M

M B Group PLC.—861/Mas/88.

M&T Chemicals Inc.—1080/Del/88, 1121/Del/88.

Manjunatha, B. S.—897/Mas/88.

Maschinenfabrik Reinhausen GmbH.—921/Mas/88.

Maschinenfabrik Rieter AG.—887/Mas/88, 911/Mas/88, 912/Mas/88, 931/Mas/88.

Maschinenfabrik Sulzer-Burckhardt AG .-- 1124/Del/88.

Name Name Appln. No. Appln. No. -Contd. M Schuvert & Salzer Maschinenfabrik Aktiengesellschaft .-- 890/ Mefina S.A,--860/Mas/88. Mas/88, 905/Mas/88. Meuscr-Werke GmbH.--904/Mas/88. Seshadri, K. -876/Mas/88. Michelin Recherche ET Technique S.A.-865/Mas/88. Shah, S. H.—352/Bom/88. Minnesota Mining & Manufacturing Co.—880/Mas/88, 884/Mas/88, 913/Mas/88. Sharina. B. A. V. K.—927/Mas/88, 928/Mas/88, 929/ Mas/88. Mitsubishi Denki Kabushiki Kaisha.-870/Mas/88. Shell Oil Co.—1167/Del/88. Mitsubishi Jukogyo Kabushiki Kaisha.—922/Mas/88. Shet, G. V.—898/Mas/88. Mitsui Petrochemical Industries, Ltd.-1074/Del/88. Singh, S. R. P.—1045/Cal/88. Mitsui Toatsu Chemicals.-992/Cal/88. Sinha, J. P.—1050/Cal/88, 1051/Cal/88. Mobil Oil Corporation.—923/Mas/88. Sir Padampat Research Centre.-1073/Del/88. Modern Balance Works-1055/Del/88. Societe Annonyme Dite Intermotra.---991/Cal/88. Mohanlal H. Mrs.-908/Mas/88. Solmat Systems Ltd.—1004/Cal/88. Morpho-Systemes.--1023/Cal/88. Sood, B.-1146/Del/88. Moton Thiokol, Inc.-1140/Del/88. Sorokin, A. Y.—1005/Cal/88. Motorola Inc.-1056/Del/88, 1057/Del/88, 1064/Del/88, Spandrel Establishment.—889/Mas/88. 1120/Del/88. Spetsialnoc Konstruktorssko Tekhnologicheskoe Biuro PO Mukhopadhyay, A. K. Dr.-1035/Cal/88. Izolyatoram I Armature VPO "Sojuzelektrosetizolyatsia",-1079/Del/88. Sree Chitra Tirunal Institute for Medical Science & Technology.—915/Mas/88. Naderi, M. T .-- 1063/Cal/88. Stamicarbon B. V.—859/Mas/88. Naja International Inc.—1066/Cal/88. Standard Tin Works .- 333/Bom/88. Narkhede, S.A.--330/Bom/88 Norsk Hydro a.s.-1111/Del/88. Stanton PLC.1027—/Cal/88. Norsolor,-1036/Cal/88. Stopinc AG.—1022/Cal/88. Stork Screens H. V.—930/Mas/88. o Owens-Illinois, Inc.-920/Mas/88. Ov. H .-- 1076/Cal/88. Talwar, V.—988/Cal/88, 989/Cal/88. Tenneco Canada Inc.—1076/Del88. P Гехасо Development Corporation.—1070/Cal/88, PPG Industries, Inc.—1125/Del/88. Cal/88. Pannalal, N.-343/Bom/88. Thaikattil, J. Dr.-877/Mas/88. Paranipe, P. N.-345/Bom/88. Thermatool Corporation.—1039/Cal/88. Patralekh, K .- 1058/Cl/88. Townsend Controls Pty. Ltd.—868/Mas/88. Pennwalt Corporation.—1074/Cal/88. Tushnev, M. N.—1144/Del/88. Pervushin, E. S.--1144/Del/88. Piaggio.-1174/Del/88. U. O. P.—883/Mas/88, 1078/Del/88, 1117/Del/88, Price Pfister, Inc.-1151/Del/88. Del/88, 1162/Del/88. Procter & Gamble Co. The .-- 1101/Del/88. Umavsky, V. A.-1144/Del/88. Prodeco S.P.A.-926/Mas/88. Uniroyal Chemical Co. Inc.—1166/Del/88. Uniroyal Goodrich Tire Co., The .- 1116/Del/88. R Raman, N.S.I.K.-871/Mas/88, 933/Mas/88. V. I. P. Industries Ltd.—328/Bom/88. Regents of the University of california, The .-- 872/Mas/88. Vaidyanathan, L. G. I.--914/Mas/88. Rolls-Royce PLC .-- 1127/Del/88. Vakil, K. N.-1164/Del/88. Rozenberg, M. E .- 1005/Cal/88. Varma, B. K. Dr.—1064/Cal/88. Verlier, J .-- 901/Mas/88. S Versatronics Ltd.—881/Mas/88. SKW Trostberg Aktiengesellschaft.—1033/Cal/88. Voest-Alpine Stahl Donawitz Gesellschaft m.b.h.—995/ Saini, G. C.—1073/Cal/88. Cal/88. Sarkar, D.-341/Bom/88. Vologodsky Politekhnichesky Institut USSR.-1018/Cal/88. Schlumberger, E.—1017/Cal/88. Vsesojuzny Nauchno-Issledovatelsky sesojuzny Nauchno-Issledovatelsky proektnokonstruktorsky I tekhnolegichesky akkumulyatorny institut.—1059/Del/88.

Schlumberger, M .- 1017/Cal/88.

3-377 GI/89

Name

Appln. No.

V-Contd.

Vsesojuzny Nauchno-Issledovatelsky i proektny institut Měkhanicheskoi Obrabotki Poleznykh Iskopaemykh Mekhanobr.—1016/Cal/88.

W

Westinghouse Brake & Signal Co. Ltd.—1085/Del/88. Whirlpool Corporation.—1054/Del/88 1072/Del/88.

Z

Zimpro Passabant Inc. -- 867/Mas/88.

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स्वीकृत सम्पूर्ण विनिद्धि

एतदूव्वाय यह सूचना वी जाती है कि सम्बद्ध आवेदनों में से फिसी पर पटेंट अनुदान का विरोध करने के इच्छुक कोई व्यक्ति, इसके निर्मम की तिथि से 4 महीने या जीग्रम ऐसी अवधि को उनत 4 महीने की जवधि की समाप्ति के पूर्व पेटेंट नियम 1972 के तहत चिहित प्रपत्र 14 पर आवेदित एक महीने की अवधि सं अधिक न हो के भीतर कभी भी नियंत्रक, एकस्य को ऐसे विरोध की सूचना विहित प्रपत्र 15 पर वे सकते हैं। विरोध सम्बन्धी लिखित वस्तव्य; उनत सूचना के साथ अध्या पेटेंट नियम, 1972 के नियम 36 में यथा विहित इसकी तिथि के एक महीने के भीतर ही फाइल किए जाने चाहिए।

"प्रत्येक विनिधांश के संदर्भ में नीच् दिए वर्गी करण, भारतीय वर्गी करण तथा अन्तराष्ट्रीय वर्गी करण के अनुक्य हैं।"

नीचं सूची गत विनिद्धां की सीमित संस्थक में मृद्भित प्रित्तयां, भारत सरकार बुक डिपो, 8 किरण शंकर राथ रोड. कलकता में विक्रय होगू गथा समय अपलब्ध होगी। प्रस्थे होणिनवाँ का मृह्य 2/- रह. हैं। (याँच भारत को बाहर भेड़े जाएं तो अतिरिक्त डाक सर्च)। मृद्भित विनिद्धां को आपृति

होतु मांग पत्र के साथ निम्निलिखित सूची में यथा प्रविधित विनिविधों की संस्था संतरन रहनी जाहिए।

रूपांकन (चित्र आरोशों) की फोटो प्रतियां यदि कोई हों; के साथ विनिद्धों की टिकिस अथवा फोटो प्रतियों की आपृति ट कार्यालय, कलकता, ब्वारा विहित लिप्पान्तरण प्रभार स्त कार्यालय, कलकता, ब्वारा विहित लिप्पान्तरण प्रभार स्त कार्यालय से पत्र व्यवहार ब्वारा सुनिद्धिक करने के उपरांत की अदायगी पर की जा सकती हैं। विनिद्धा की पृष्ठ संख्या के साथ प्रत्येक स्वीकृत विनिद्धा के सामने नीचे विणित चित्र आरोब काग्यों को जोड़कर उसे 4 से गुणा करके; (क्योंकि प्रत्येक पृष्ठ का लिप्पान्तरण प्रभार 4/- रहें, हैं) फोटो लिप्पान्तरण प्रभार का परिकासन किया जा सकता है।

Int. CLASS: B 22 c 11/00

165691

A MOULDING SYSTEM FOR MAKING MOULD PARTS.

Applicant: DANSK INDUSTRI SYNDIKAT A/S, OF HERLEV HOVEDGADE 15-17, 2730 HERLEV, DENMARK.

Inventor: SOREN ERIK KNUDSEN.

Application No. 1/Cal/1987 filed January 01, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

77 Claims

A moulding system for making mould parts by compacting sand or other like material between a vertical squeeze plate (12) and a vertical swingable plate (8), forming movable end walls in the squeeze chamber (6), and where the swingable plate (8) swings away after compaction to allow mould part passage from the squeeze chamber by further advance movement of the squeeze plate (12), characterized in that the swingable plate (8) is journalled in a foremost yoke (4), which connects with a pull yoke (2) placed behind the squeeze chamber by means of a rigid frame structure parallel with the longitudinal axis of the chamber.

Compl. speen. 9 pages

Drg. 2 sheets

Int. CLASS: H 01 h 9/00

165692

AN ASSEMBLY IN OR FOR USE IN AN ELECTRICAL SWITCHING DEVICE.

Applicant: SIEMENS AKTIENGESELLSCHAFT, OF WITTELSBACHERPLATZ 2, D-8000. MUNCHEN 2, WEST GERMANY.

Inventor: WILLY SABISCH.

Application No. 102/Cal/1987 filed February 03, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

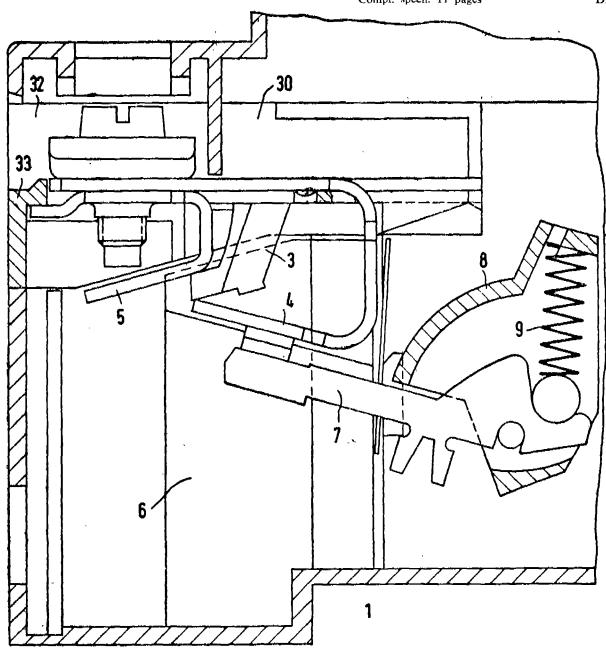
An assembly in or for use in an electrical switching device, the assembly including an electrically insulating structure having two parallel grooves facing one another, a contact piece which is intended for use as a fixed contact piece of the switching device and has a first limb, two opposed edges of which lie in the grooves and have been slid along them by movement of the contact piece in a first direction relative to the insulating structure, the first limb being joined by a connecting part to a second limb of the contact piece which is shorter than the first limb and extends away from the connecting part in the same general direction as does the first limb the second limb serving, on its ade remote from the first limb, for contact making, the assembly further including an are spiltter having a first leg adjacent the first limb of the contact piece, on the side of the first limb which is nearer the

second limb, and electrically connected to the first limb, the first leg of the arc spiltter which extends away from the connecting piece in the same general direction as does the first leg, the first leg of the arc splitter having been inserted in a recess in the insulating structure by movement of the arc splitter in a second direction relative to the

insulating structure, the second direction being transverse to the first direction, the first leg carrying a screw-thread to receive a terminal screw and the first limb of the contact piece being formed with a thorough-going hole through which the terminal screw can pass.

Compl. speen. 11 pages

Drg. 2 sheets



Int. CLASS: F16t 1/48

165693

STEAM TRAP OPERATION MONITORING DEVICE.

Applicant: TLV CO., LTD., OF 881 NAGASUNA, NOGUCHI-CHO, KAKOGAWA-SHI, HYOGO, 675

Inventors: (1) YOSHIYASU FUJIWARA, (2) MASAO YONEMURA, (3) TAKESHI YOKOYAMA.

Application No. 155/Cal/1987 filed March 02, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

3 Claims

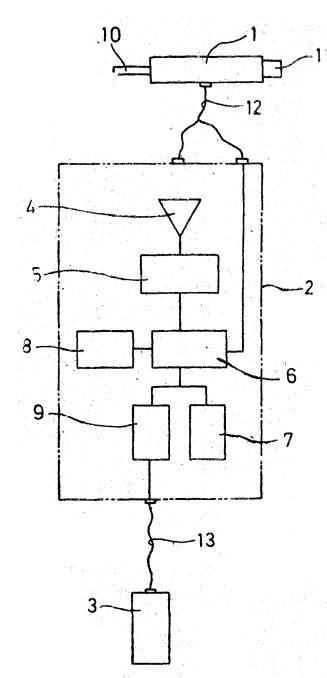
A steam trap operation monitoring device comprising:

steam leakage detector means for measuring and storing data representing the operation of steam traps, and host computer means to which said data are transferred for storing said data, said host computer means operating to record and display the summation of leakage in a plurality of steam traps;

the totalization and analysis of leakage in terms of at least one of monetary cost and a rejection rate, and changes in each of said steam traps with time; said steam leakage detector means comprising an operation detecting section for sensing parameters of a plurality of steam traps to generate analog signals;

an analog-to-digital converter connected to said operation detecting section for converting the analog signals to digital signals;

a microcomputer connected to said analog-to-digital converter for receiving the digital signals and for analyzing the digital signals to detect the presence of steam leaks in each steam trap based on the parameters sensed for each steam leaks trap and stoarge means connected to said micro-computer for storing data concerning the condition and change in condition of each steam trap with regard to steam leakage.



Compl. specn. 12 pages

Drg. 1 sheet

Int. CLASS: A 41 f 1/04 17/00

165694

A SLIDING CLASP FASTENER HAVING WOVEN SUPPORTING TAPES AND WOVEN-IN PREFABRICATED ROWS OF INTERLOCKING MEMBERS.

Applicant: OPTI PATENT, FORSCHUNGS-UND FA-BRIKATIONS AG., OF CH-8750 RIEDERN-ALLMEIND, SWITZERLAND.

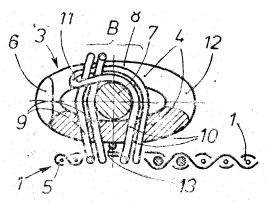
Inventors: HENNING HANSEN.

Application No. 261/Cal/1987 filed April 01, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

A sliding clasp fastener having woven supporting tapes and woven-in prefabricated rows of interlocking members each formed helically from a plastics monofilament, in which the interlocking members, seen in a projection on the plane of the sliding clasp fastener, have limbs superimposed on at least the interlock side, interlocking heads protruding beyond the edges of the supporting tapes, an inserted core attachment sections, each row of interlocking members is attached to the top face of its supporting tape by binding chain threads engaging the interlock side of each interlocking member and at least one wrapping thread engaging the attachment section, and the core and attaching them to the suporting tape, the binding chain threads are crossed over between successive interlocking members, and the wrapping threads pass round the binding chain threads in a loop between successive interlocking members, characterised in that the attachment section (8), seen in a projection on the plane of the sliding clasp fastener, are disposed in the middle of the interlocking members (3), some distance from the interlocking heads (6) but also some distance from rearward return loops (12), while the binding chain threads (9) are disposed in the supporting tapes (1) beneath the middle (B) of the interlocking members (3) and drawn on to the attachment sections (8) by the loops (11) of the wrapping threads (10) which pass partly round the attachment sections (8).



Compl. specn. 11 pages

Drg. 2 sheets

CLASS: 61-H

165695

Int. Cl.: D 21 p 5/18, 7/12.

A BLOW BOX FOR A DRYER.

Applicant: BELOIT CORPORATION, OF P.O. BOX 350, BELOIT, WISCONSIN 53511, U.S.A.

Inventor: GREGORY LYNN WEDEL.

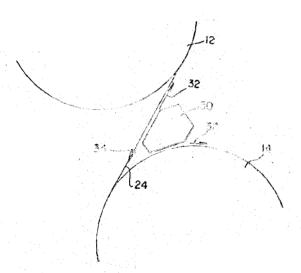
Application No. 266/Cal/1987 filed April 02, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta,

17 Claims

A blow box disposed within a pocket defined by a web and felt travelling together from a first dryer to and around a second dryer and on to and around a third dryer, said blow box comprising in combination:

- a wedge-shaped box extending from between the first and third dryers to adjacent the second dryer, said box being connected to a source of pressurized air for maintaining the web in close conformity with the felt when the web and feld diverage relative to the first dryer; and
- said box defining an orifice disposed adjacent to the first dryer for directing pressurized air towards the first dryer and thereafter directing the air in a direction opposite to the direction of rotation of the first dryer such that the web is urged against the felt for inhibiting the tendency of the web to adhere to the first dryer when the felt diverages relative to the first dryer.



Compl. speen. 29 pages

Drg. 6 sheets

CLASS: 61-F

165696

Int. Cl.: D 21 f 5/00. PAPER WEB DRIER SECTION AND METHOD OF PAPER MANUFACTURED USING SAID DRIER.

Applicant: BELOIT CORPORATION, P.O. BOX 350, BELOIT, WISCONSIN 53511, U.S.A.

Inventor: DONALD ALEXANDER ELY.

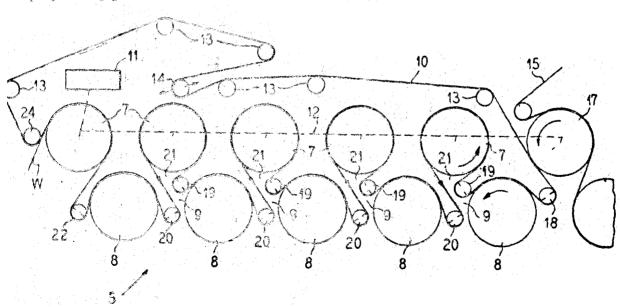
Application No. 272/Cal/1987 filed April 03, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

10 Claims

- A paper web drier section having:
 - an upper horizontal tier of a plurality of rotary dryers spaced from one another less than the diameter of the dryers;
 - a lower horizontal tier of rotary dryers spaced from one another and adjacently spaced from said upper dryers, and with said upper dryers forming with the lower dryers respective generally triangular pockets;
 - an endless drier felt trained to run a sinuously successively and in direct contact on the upper perimeter areas of said upper and lower dryers;

means for effecting running of all of said dryers and said felt in one direction; and a pair of felt rolls in each pocket for maximizing the wrap of the felt, and thereby the web, on the dryer perimeters, a first of said pair of felt rolls in each pocket located for controlling running of said felt and web from the lower dryer located at the on running of the pocket into said pocket and then in on running direction onto the upper dryer defining the pocket and a second of said pair of felt rolls in each pocket controlling running of the felt and web from the off running side of the upper dryer into the pocket and then onto the on running side of the lower dryer at the offrunning side of said pocket, and said second felt roll forming with the drier felt and said first felt roll a generally downwardly opening broke-receiving and ejection subpocket under said upper dryer and within said pocket. said felt in one direction; and a pair of felt rolls pocket.



CLASS : 129-Q

165697

Int. Cl.; B 23 k 35/40; C 23 f 13/00, 17/00.

INSTALLATION FOR ELECTROCHEMICAL CLEANING OF LONG MATERIALS, MAINLY WIRE, USED FOR WELDING.

Applicant: SLAVYANSKY FILIAL VSESOJUZNOGO NAUCHNO-ISSLEDOVATELSKOGO I PROEKTNO KONSTRUKTORSKOGO INSTITUTA METALLURGICHESKOGO MASHINOSTROENIA IMENI A.I. TSELIKOVA, OF SLAVYANSK, DONETSKOI OBLASTI, ULITSA KARPINSKOGO, 2A, USSR.

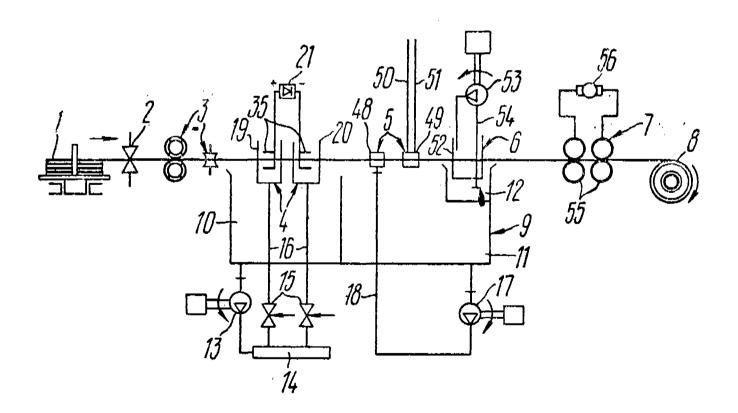
Inventors: (1) VLADIMIR IZRAILEVICH DUNAEV-SKY, (2) ANATOLY YAKOVLEVICH ZANIN, (3) PAVEL MIKHAILOVICH KOVALENKO, (4) OLEG DONOVICH SHVARTSBURD, (5) NIKOLAI MIKHAI-LOVICH IGNATSEVICH, (6) GENNADY VASILIEVICH TURLUPOV, (7) ALEXANDR SERGEEVICH KOROT- KY, (8) STANISLAV NIKOLAEVICH ANTONOV, (9) NIKOLAI NIKOLAEVICH GORDIENKO, (10) MIKHAIL GRIGORIEVICH IVANISCHEV, (11) BORIS PETROVICH MININ, (12) IOSIF MIRONOVICH LIVSHITS, (13) ALEXANDR MIKHAILOVICH REZNIK, 14. KONSTANTIN SERGEEVICH FILONOV.

Application No. 406/Cal/1987 filed May 21, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

11 Claims

An installation for electrochemical cleaning of long materials, mainly wire, used for welding, wherein installed in succession in the direction of movement of the wire under cleaning are at least one bipolar electrolyte-cavitation treatment unit comprising a cathode section and an anode section installed one after the other, the latter being essentially an electrolyte plasma generator, an arrangement for application of a protection and lubrication coating and an arrangement for drying of the cleaned wire.



CLASS:

165698

Int. Cl.: B 21 d 13/00.

MACHINE FOR MAKING LONGITUDINAL CORRUGATIONS IN METAL SHEETS.

Applicant (1) TROND NILSEN, OF ENGERJORDET 19,1310 BLOMMENHOLM, NORWAY, AND (2) ERLING C. NORMANN, OF BJORKETUN 6, 7650 VERDAL, NORWAY.

Application No. 417/Cal/1987 filed May 25, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

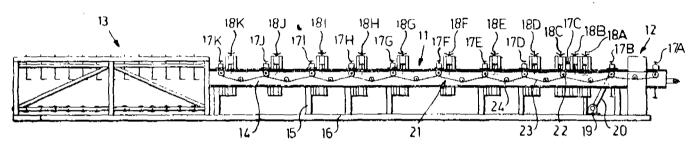
11 Claims

A machine for making longitudinal corrugations in sheet material particularly of metal with stepwise folding/bending

over free-running rollers and counter-rollers, so that alternating longitudinal convex and concave corrugations are formed, characterized in that at each profiling step there are upward and downward forming rollers, these forming rollers can be individually adjusted laterally to the direction of corrugation:

that separate from the forming rollers at least one set of drive rollers are located with corresponding counter-rollers, where both the drive rollers and counter-rollers can be adjusted laterally to the direction of corrugation;

that all forming rollers which correspond to a ridge or a groove lie in one and the same straight plane, whilst equivalent points of contact between the sheet material and the forming rollers that form grooves, or ridges respectively, lie in a curved bent plane, whilst the points of contact between the drive rollers and the sheet material lie in a common, preferably horizontal plane.



165699

Compl. specn. 19 pages

Drg. 4 sheets

Int. CLASS: C 07 c 31/12, 85/02

PROCESS FOR THE PRODUCTION OF L-2-AMINO-4-(HYDROXYMETHYLPHOSPHINYL)-BUTYRIC ACID.

Applicant: MEIJI SEIKA KAISHA LTD., OF 4-16, KYOBASHI 2-CHOME, CHUO-KU, TOKYO, JAPAN.

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Application No. 438/Cal/1987 filed June 03, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

18 Claims

A process for the production of L-2 amino-4-(hydroxymethyl-phosphinyl)-butyric acid represented by the formula (1) of the accompanying drawings:

Formula (I)

which comprises treating (1) 4-(hydroxymethylphosphinyl)-2-oxo-butyric acid represented by the formula (II) of the accompanying drawings

Formula (II)

with (2)(a) one or more transaminases or (2)(b) with one or more micro-organisms capable of producing one or more transaminases, in the presence of (3) one or more aminodonors said acid and amino donor compounds being present at a molar ratio in the range 1:10 to 10:1, at a temperature of from room temperature to 60°C, preferably 25°C to 50°C and pH of 7.0 or higher, preferably 8.0 to 9.0.

Compl. specn. 56 pages

Drg. 1 sheets

CLASS: 85-K

165700

Int. Cl.: B 01 j 8/24; F 27 b 15/00.

FLUIDIZED BED SYSTEM.

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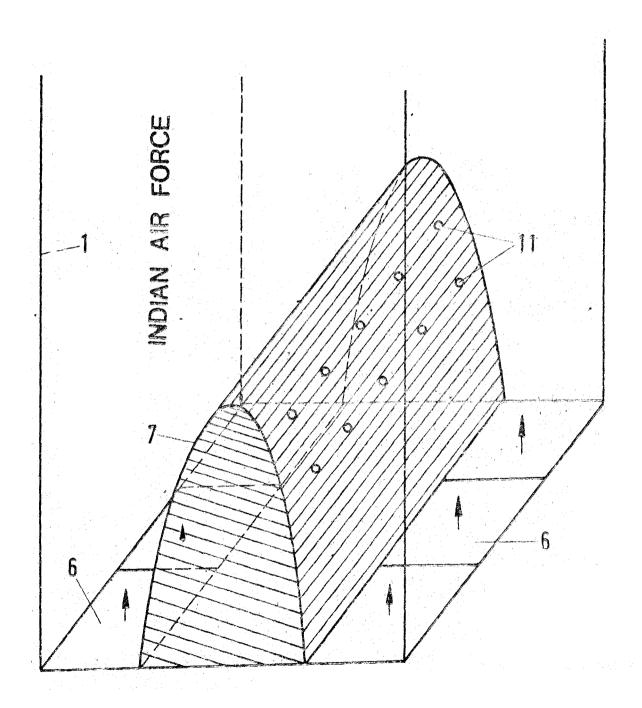
Application No. 441/Cal/1987 filed June 05, 1987.

Appropriate office for opposition proceedings (Rule 4, Patents Rules, 1972) Patent Office, Calcutta.

6 Claims

- A fluidized bed system comprising.:
 - a fluidized bed reactor;
 - a solids separator and a return line for carrying out exothermic processes in a circulating fluidized bed, which system comprises lines for supplying oxygen-

- containing primary gases through the bottom of the fluidized bed reactor;
- lines for supplying oxygen-containing secondary gases on a level which is at least 1 meter above the bottom of the reactor but not in excess of 30% of the height of the reactor; and
- a fuel line, which opens into the fluidized bed reactor between the primary and secondary gas inlet means, characterized by one or more displacing body (bodies) (7), which covers or cover 40 to 75% of the bottom surface area of the fluidized bed reactor (1) and has or have a maximum height that is equal to one-half of the height of the fluidized-bed reactor (1).



REGISTRATION OF DESIGNS

The following design have been registered. They are not open to inspection for a period of two years from the date of registration except as provided for in Section 50 of the Design Act, 1911.

The date shown in the each entry is the date of registration of the design included in the entry.

- Class 3. No. 161057. Mehta Clock, Behind State Bank of Saurashtra, Morbi (Gujarat) (India), a regd. Partnership firm. "Wall Clock". 6th June, 1989.
- Class 3. No. 161332. International Business Machines Corporation, a Corporation organised and existing under the laws of the State of New York, United States of America, of Armonk, New York 10504, United States of America. an "Electronic Appa-

ratus". Reciprocity date is 15th June, 1989 (U.K.).

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